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L2	18	L1 and metadata and (logical\$2 and (partition\$3 or section\$1 or block\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 15:11
L3	46	metadata same logic\$3 same ((partition\$3 or section\$1 or segment\$3 or portion\$3) with (cop\$3 or replicat\$4 or duplicat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 15:27
L4	375	(metadata same logic\$3 same (partition\$3 or section\$1 or segment\$3 or portion\$3)).clm"	US-PGPUB	OR	ON	2006/11/09 15:28
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1 [Relational languages for metadata integration](#)



Catharine M. Wyss, Edward L. Robertson

 June 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 2

Publisher: ACM Press

 Full text available: pdf(692.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article, we develop a relational algebra for metadata integration, *Federated Interoperable Relational Algebra* (FIRA). FIRA has many desirable properties such as compositionality, closure, a deterministic semantics, a modest complexity, support for nested queries, a subalgebra equivalent to canonical Relational Algebra (RA), and robustness under certain classes of schema evolution. Beyond this, FIRA queries are capable of producing fully dynamic output schemas, where the number of ...

Keywords: Data integration, federated data model, federated databases, interoperability, metadata integration, metadata querying, multidatabases, relational query algebra, schema integration, transformational completeness

2 [Query evaluation techniques for large databases](#)



Goetz Graefe

 June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

 Full text available: pdf(9.37 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

3 The Vesta parallel file system



Peter F. Corbett, Dror G. Feitelson

August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: [pdf\(649.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Vesta parallel file system is designed to provide parallel file access to application programs running on multicomputers with parallel I/O subsystems. Vesta uses a new abstraction of files: a file is not a sequence of bytes, but rather it can be partitioned into multiple disjoint sequences that are accessed in parallel. The partitioning—which can also be changed dynamically—reduces the need for synchronization and coordination during the access. Some control over the layout ...

Keywords: data partitioning, parallel computing, parallel file system

4 Algorithms and data structures for flash memories



Eran Gal, Sivan Toledo

June 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 2

Publisher: ACM Press

Full text available: [pdf\(343.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Flash memory is a type of electrically-erasable programmable read-only memory (EEPROM). Because flash memories are nonvolatile and relatively dense, they are now used to store files and other persistent objects in handheld computers, mobile phones, digital cameras, portable music players, and many other computer systems in which magnetic disks are inappropriate. Flash, like earlier EEPROM devices, suffers from two limitations. First, bits can only be cleared by erasing a large block of memory. S ...

Keywords: EEPROM memory, Flash memory, wear leveling

5 SchemaSQL: An extension to SQL for multidatabase interoperability



Laks V. S. Lakshmanan, Fereidoon Sadri, Subbu N. Subramanian

December 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: [pdf\(435.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We provide a principled extension of SQL, called *SchemaSQL*, that offers the capability of uniform manipulation of data and schema in relational multidatabase systems. We develop a precise syntax and semantics of *SchemaSQL* in a manner that extends traditional SQL syntax and semantics, and demonstrate the following. (1) *SchemaSQL* retains the flavor of SQL while supporting querying of both data and schema. (2) It can be used to transform data in a database in a structure substa ...

Keywords: Information integration, SchemaSQL, multidatabase systems, restructuring views, schematic heterogeneity

6 Practical byzantine fault tolerance and proactive recovery



Miguel Castro, Barbara Liskov

November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.63 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

[terms, review](#)

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

7 [Real-time shading](#)



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

8 [A taxonomy of Data Grids for distributed data sharing, management, and processing](#)



Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

9 [Modeling the storage architectures of commercial database systems](#)



D. S. Batory
December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4

Publisher: ACM Press

Full text available: [pdf\(4.46 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms, review](#)

Modeling the storage structures of a DBMS is a prerequisite to understanding and optimizing database performance. Previously, such modeling was very difficult because the fundamental role of conceptual-to-internal mappings in DBMS implementations went unrecognized. In this paper we present a model of physical databases, called the transformation model, that makes conceptual-to-internal mappings explicit. By exposing such mappings, we show that it is possible to model the storage ...

10 Course and exercise sequencing using metadata in adaptive hypermedia learning systems



Stephan Fischer

March 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(115.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In the last few years the (semi-) automatic sequencing of course material has become an important research issue, particularly the standardization of metadata for educational resources. Sequencing can help to generate hypermedia documents which, at their best match the learner's needs. To perform (semi-) automatic course sequencing, a knowledge library as well as modular resources can be used. Both must be described by metadata. ...

Keywords: adaptive hypermedia systems, hypermedia learning, knowledge engineering, sequencing of course material

11 HFS: a performance-oriented flexible file system based on building-block compositions



Orran Krieger, Michael Stumm

August 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(383.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Hurricane File System (HFS) is designed for (potentially large-scale) shared-memory multiprocessors. Its architecture is based on the principle that, in order to maximize performance for applications with diverse requirements, a file system must support a wide variety of file structures, file system policies, and I/O interfaces. Files in HFS are implemented using simple building blocks composed in potentially complex ways. This approach yields great flexibility, allowing an application ...

Keywords: customization, data partitioning, data replication, flexibility, parallel computing, parallel file system

12 A model of multimedia information retrieval



Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia

September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5

Publisher: ACM Press

Full text available: pdf(5.69 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

Keywords: Description logics, fuzzy logics, multimedia information retrieval

13 Model-driven development of Web applications: the AutoWeb system



Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: pdf(6.94 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

14 The Conquest file system: Better performance through a disk/persistent-RAM hybrid design



An-I Andy Wang, Geoff Kuenning, Peter Reiher, Gerald Popek

August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(1.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern file systems assume the use of disk, a system-wide performance bottleneck for over a decade. Current disk caching and RAM file systems either impose high overhead to access memory content or fail to provide mechanisms to achieve data persistence across reboots. The *Conquest* file system is based on the observation that memory is becoming inexpensive, which enables all file system services to be delivered from memory, except for providing large storage capacity. Unlike caching, *Con* ...

Keywords: *Persistent RAM, file systems, performance measurement, storage management*

15 Improving storage system availability with D-GRAID



Muthian Sivathanu, Vijayan Prabhakaran, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(700.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the design, implementation, and evaluation of D-GRAID, a gracefully degrading and quickly recovering RAID storage array. D-GRAID ensures that most files within the file system remain available even when an unexpectedly high number of faults occur. D-GRAID achieves high availability through aggressive replication of semantically critical data, and fault-isolated placement of logically related data. D-GRAID also recovers from failures quickly, restoring only live file system data to a h ...

Keywords: Block-based storage, Disk array, RAID, fault isolation, file systems, smart disks

16 The Integrated Dictionary/Directory System



Frank W. Allen, Mary E. S. Loomis, Michael V. Mannino

June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.71 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Ext3cow: a time-shifting file system for regulatory compliance



Zachary Peterson, Randal Burns

May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  pdf(443.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and auditability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

18 Cheap recovery: a key to self-managing state



Andrew C. Huang, Armando Fox

February 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Cluster hash tables (CHTs) are key components of many large-scale Internet services due to their highly-scalable performance and the prevalence of the type of data they store. Another advantage of CHTs is that they can be designed to be as self-managing as a cluster of stateless servers. One key to achieving this extreme manageability is reboot-based recovery that is predictably fast and has modest impact on system performance and availability. This "cheap" recovery mechanism simplifies manage ...

Keywords: Cluster hash table, manageability, quorum replication, storage systems design

19 On incremental file system development



Erez Zadok, Rakesh Iyer, Nikolai Joukov, Gopalan Sivathanu, Charles P. Wright

May 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  pdf(260.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Developing file systems from scratch is difficult and error prone. Using layered, or stackable, file systems is a powerful technique to incrementally extend the functionality of existing file systems on commodity OSes at runtime. In this article, we analyze the evolution of layering from historical models to what is found in four different present day commodity OSes: Solaris, FreeBSD, Linux, and Microsoft Windows. We classify layered file systems into five types based on their functionality and ...

Keywords: I/O manager, IRP, Layered file systems, VFS, extensibility, stackable file systems, vnode

20

The 3DIS: an extensible object-oriented information management environment



Hamideh Afsarmanesh, Dennis McLeod

October 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 4

Publisher: ACM Press

Full text available: pdf(2.79 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The 3-Dimensional Information Space (3DIS) is an extensible object-oriented framework for information management. It is specifically oriented toward supporting the database requirements for data-intensive information system applications in which (1) information objects of various levels of abstraction and modalities must be accommodated, (2) descriptive and structural information (metadata) is rich and dynamic, and (3) users who are not database experts must be able to design, manipulate, a ...

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Hello Examiner Thai,

Attached are the proposed claim amendments to incorporate into an Examiner's Amendment. Please let me know if this will place the application in a condition for allowance.

Thanks,

Tremayne Norris
Patent Agent
Shook, Hardy & Bacon, L.L.P.
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